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PHYSICS NMDCAT

TOPIC WISE TEST (UNIT-1)

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TO	PI	CS	

TOPIC	S:					
✓	Force and Motion					
Q. 1	If distance covered is zero. The displacement					
	A. Must be zero	B. May or may not be zero				
	C. Cannot be zero	D. Depend upon body				
Q. 2	An athlete complete half a round of a	circular track of radius R. The displacement				
	covered is					
	A. R	B. 2R				
	C. $\sqrt{2}R$	D. Zero				
Q. 3 A particle moves with uniform velocity. Its						
	A. Speed is zero	B. Acceleration is zero				
	C. Opposite to velocity	D. Speed is variable				
Q. 4						
	v1 v1	v1 v1				
	$t \rightarrow t \rightarrow$	$t \rightarrow t \rightarrow$				
0.5	A. B.	C. D.				
Q. 5	The slope of v-t graph for uniform velocity A. 0	· ·				
	C. Positive	B. Negative				
0.6		D. Positive or negative				
Q. 6	A. 0.51	N. What is the accelerations produced in m sec ⁻² B. 49.00				
	C. 1.46	D. 5.00				
0.7						
Q. 7	When projectile is projected in XY-plant A. Remains same					
	C. Goes on increasing with height	B. Goes on decreasing with height D. First increases then decreases				
Q. 8	If R is the max range of projectile then					
Q. o	if K is the max range of projectne then					
	A. R	B. $\frac{R}{4}$				
	G D/2					
0.0	C. R/2	D. 2R				
Q. 9	A stone is released from moving train the					
	A. Hyperbolic path	B. Straight path				
0 10	C. Parabolic path	D. Circular path				
Q. 10	Range of projectile at 30° is R. At what					
	A. 60°	B. 45°				
O 11	C. 50°	D. 20°				
Q. 11	A person can throw a stone to maximum distance of 80m the greatest height to					
	which he can throw the stone is	B. 50 m				
	A. 100 m	D. 20 m				
0 12	C. 80 m	1 50 ms ⁻¹ drops a packet at 490 m height. Its				
Q. 12		1 50 ms drops a packet at 490 m neight. Its				
	time of flight is	P. 10 sec				
	A. 50 sec	B. 10 sec D. 20 sec				
	C. 40 sec	D. 20 SCC				



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Q. 13	If the time of flight of projectile is double	ed its height becomes
	A. Doubled	B. 4times
	C. Unchanged	D. Halved
Q. 14	At the top of trajectory in projectile moti	ion angle between v and acceleration is
	A. 90°	B. 60°
	C. 0°	D. 180°
Q. 15	When a body is stationary	
	A. There is no force acting	B. Net force is zero
	C. Body is in vacuum	D. Force is less than weight
Q. 16	Force bear by wall on which water strike	e normally at speed of 10 m sec ⁻¹ and at a
	discharge .0001 m ³ /sec is	D 400.34
	A. 1 N	B. 100 N
0.15	C. 10 N	D. 1000 N
Q. 17		eces of masses m_1 and m_2 with velocities V_1
	and V_2 the ratio of $(K.E)_1 / (K.E)_2$ is	
	A. 1	B. $\frac{\mathbf{m}_2}{\mathbf{m}_2}$
		\mathbf{m}_{1}
	$c_{\rm m_1}$	D. $\frac{m_1 + m_2}{m_1 + m_2}$
	C. $\frac{m_1}{m_2}$	$m_1 m_2$
0 18	A hody of momentum my collides with a	wall elastically its change in momentum is
Q. 10	A. mv	B. 0
	C. –2 mv	D. mv
0. 19	Which law of motion is called law of iner	
	A. 1st	B. 3rd
	C. 2nd	D. Law of gravitation
Q. 20	With the help of V-t graph we can find	
	A. Acceleration	B. Force
	C. Distance	D. Both A and B
Q. 21	0	
	A. Distance	B. Displacement
	C. Speed	D. Momentum
Q. 22		7-t graph is equal to acceleration
	A. Uniform	B. Average
0.22	C. Instantaneous	D. All of these
	For long range and greater precisionA. Powered	B. Powered and guided missile are used
	C. Remote control guided	D. Unpowered missile are used
Q. 24	No body begin to move or comes to rest i	
Q. 24	A. Newton	B. Maxwell
	C. Abu Ali Sena	D. Planck's
Q. 25	K.E of projectile at highest point is half of	
C	A. 30°	B. 45°
	C. 60°	D. none
Q. 26		s from 0 to A, and then A to B. Find path
	length	27 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	7	(distance) and displacement.
	В 0	A
		A + (1) - (2) - (3)
	-2 -1	(m)
	A. 8m, -2m	B. 2m, -2m
	C. 8m, -8m	D. 2m, 2m
Q. 27		e moving with uniform velocity is
	A. Parabola	B. Straight line
	C. Circle	D. Hyperbda
Q. 28	The ratio of distance to displacement alo	ng a semi circle of radius r is
	$A. 2\pi$	Β. π



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C. $\pi/2$ D. none of these

Q. 29 The displacement time graph for two bodies A and B are straight these inclined at 60° and 30° to time axis. Find ratio of their speed is

A.3:1

C.1:3

B. $\sqrt{3}:1$ D. 1: $\sqrt{3}$

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Q. 30	An athlete completes one round of a circular track of radius R in 40sec what will displacement at the end of 1minute.					
	A. O		B.	2R		
	C. R			$3\pi R$		
Q. 31		o graph are inclined at			time axis. The ratio of their	B*
Q. 31	acceleration	le graph are inclined at	i sv. a.	nu 45 with	time axis. The ratio of their	ī
				_		
	A. $\sqrt{3}:2$		В.	$\sqrt{3}$:1		
	C. 1 : $\sqrt{3}$		D.	none		
0 32		ge and height at 45° is				
Q. 32	A. 1:4	ge and neight at 45 15	В	1:2		
	C. 4:1			2:1		
0 33		tion if air resistance is			ontal motion is with	
Q. 33	A. Constant velo			Variable ve		
	C. Constant acce	-		Constant re	<u> </u>	
0.24					e change in momentum	
Q. 34	A. 10 N.s	acts on a body for 5 sec		50 N.s	e change in momentum	
	C. 5 N.s			100 N.s		
0.25		fuore a naint and natur			ma naint than its	
Q. 35		from a point, and returnity is zero but not avera			me point, then its	
		d is zero but not average				
		city is zero but not average				
		and velocity are zero	ige ven	serry		
Q. 36			or the	first half ti	me with velocity v ₁ and	
2.00		e with velocity v ₂ . Then				
		. ,,		-	g- · · · · · ·	
	A. $\frac{v_1 + v_2}{2}$		В.	$\frac{2v_1v_2}{v_1 + v_2}$		
	2			$v_1 + v_2$		
	C. $\frac{\overrightarrow{v_1} + \left(-\overrightarrow{v_2}\right)}{4}$					
	C (-)		D.	$\sqrt{v_1v_2}$		
Q. 37	+	n upwards and reache	e ite m	avimum he	hight At that position	
Q. 37	A. Its acceleratio		5 It5 III	aximum iic	ight. At that position	
		zero but its acceleration	s is ma	ximum		
		and accelerations zero				
		zero but its acceleration	is acc	elerations di	ue to gravity	
Q. 38					a semicircle of radius 1.0m	ı.
	The magnitude	of average velocity is				
	A. 3.14 m/s			1.9 m/s		
	C. 2.0 m/s	~ ~ 1. 1. 1		zero		
Q. 39		oint, the velocity of pro				
	A. Maximum			Minimum	1 16 6	(
	C. Zero		D.	Equal to	half of x – component	OI
0.40	velocity	ontum is colled		A		
Q. 40	A. Moment of for		D	Force		
		ice			EAIVI	
O 41	C. Torque	- C	D.	Impulse		
Q. 41		w of motion establishes				
	A. Force and acc			Mass and fo	orce on and mass	
0 42	C. Mass and velo	The second secon				
Q. 42			ith the	norizontal	, the height is maximum	
	when θ is equal	i to	-/- D		/AI	
	A. 0° C. 30°	AND A SECOND OF		45 90°		
0 42		tion of musicatile at				
Q. 43		tion of projectile at ma				
	A. HorizontalC. Any direction			Vertical No direction	nn.	
	C. Any uncentur		D.	140 miecho	/11	



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Q. 44 If $R = \frac{R_{\text{max}}}{R}$ then angle of projection is

A. 30°

B. 60°

C. 15°

D. none

Q. 45 If a tennis ball moving with velocity 15 ms⁻¹ collides elastically with a wall then velocity of tennis ball after collision will be

A. 15 ms^{-1}

B. 30 ms^{-1}

 $C. -15 \text{ ms}^{-1}$

D. -30 ms^{-1}

Q. 46 A 70 g ball collides with another ball of mass 140 g. The initial velocity of the first ball is 9 ms⁻¹ to the right while the second ball is at rest. If the collision were perfectly elastic; what would be the velocity of the two balls in ms⁻¹ after the collision?

A. -3.6

B. 6, -3

C. 3, 7

- D. -7.3
- Q. 47 In elastic collision, when a massive body collides with light body at conditions m₁ >> m_2 and $v_2 = 0$ ms⁻¹, then the change in velocity will be written as:

A. $v_1' \approx -v_1$; $v_2' \approx v_1$

B. $v_1' \approx v_1$; $v_2' \approx 2v_1$

C. $v_1' \approx v_1$; $v_2' \approx 0$

- D. $v_1' \approx -v_1$; $v_2' \approx 0$
- Q. 48 A force of 5N acts on a body of 5kg for 5 sec. The rate of change of momentum is

A. 25N

B. 5 N

C. 50 N

- D. 125 N
- Q. 49 If a force of 12N is applied on a body and its momentum is changed from 60 kgms⁻¹ to 36 kg ms⁻¹, then find the time during, which this force acts:

A. 1 second

B. 12 seconds

C. 2 seconds

- D. 24 seconds
- Q. 50 If the velocity of the body changes by equal amount in equal intervals of time, the body is said to have:

A. variable acceleration

B. uniform velocity

C. uniform acceleration

D. negative acceleration

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